



Safety Data Sheet

Issue Date: no data available

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Version: 2

1. IDENTIFICATION

Product Identifier:

Product Name: Micromax® Granular
Product Number(s): G90505
Formula No.: S10583

Recommended Use of the Chemical and Restrictions on Use:

Description: General Fertilizer Product

Company:

Everris NA Inc.
P.O. Box 3310
Dublin, OH 43016

24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-800-492-8255

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin Corrosion or Irritation	Category 2
Serious Eye Damage or Eye Irritation	Category 1
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

Label Elements:

Emergency Overview

Danger

Hazard Statements:

Harmful if swallowed
Causes skin irritation
Causes serious eye damage
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure



Appearance: granulate

Physical State: Solid

Odor:

Fertilizer

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see .? on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash before reuse
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC):**Other Information:**

- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

Unknown Acute Toxicity:

9.3% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Manganese Sulfate Monohydrate	10034-96-5	1-10	*
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O	7758-99-8	1-5	*
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O	7446-19-7	1-5	*
Sodium Tetraborate Pentahydrate	12179-04-3	<1	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures:****Eye Contact:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂), Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media: High volume water jet.

Specific hazards: Dust clouds may be explosive.

Hazardous Combustion Products: Toxic fumes may be produced.

Explosion Data:

Sensitivity to Mechanical Impact:

no data available.

Sensitivity to Static Discharge:

no data available.

Special Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions: Avoid dust formation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not inhale dust/mist.

Environmental Precautions: Prevent product from entering drains. Avoid subsoil penetration.

Methods and Material for Containment and Cleanup:

Methods for containment: Vacuum or sweep up material and place in a disposal container.

Methods for Cleanup: Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Keep out of reach of children and pets. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Do not contaminate water while cleaning equipment. this product is toxic to fish. Keep out of lakes, streams or ponds. Use proper protective equipment to minimize exposure.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines:

Ingredients	CAS-No	ACGIH:	OSHA:	IDLH:
Manganese Sulfate Monohydrate	10034-96-5	0.02 mg/m ³ TWA 0.1 mg/m ³ TWA	Not Listed	500 mg/m ³ IDLH Mn
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O	7758-99-8	1 mg/m ³ TWA	Not Listed	100 mg/m ³ IDLH Cu
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O	7446-19-7	Not Listed	Not Listed	Not Listed
Sodium Tetraborate Pentahydrate	12179-04-3	2 mg/m ³ (TWA)	total dust: 15 mg/m ³ ; respirable dust: 5 mg/m ³	Not Listed

Appropriate Engineering Controls:

Engineering Measures to Reduce Exposure: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side shields or goggles. Wear face-shield and protective suit for abnormal processing problems. Not required.

Skin and Body Protection: Wear suitable protective clothing. impervious gloves. Impervious clothing.

Respiratory Protection: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State:	Solid	Appearance:	granulate
Color:	Tan	Odor	No information available
Odor:	Fertilizer	Threshold:	

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
pH:	No information available	
Melting Point/Freezing Point:	No information available	
Boiling Point/Range:	No information available	
Flash Point:	No information available	
Evaporation Rate:	No information available	
Flammability (solid, gas):	No information available	
Flammability Limits in Air:		
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	
Vapor Density:	No information available	
Specific Gravity:	No information available	
Solubility:	slightly soluble	
Solubility in other Solvents:	No information available	
Partition Coefficient:	No information available	
Autoignition Temperature:	No information available	
Decomposition Temperature:	No information available	
Kinematic Viscosity:	No information available	
Dynamic Viscosity:	No information available	
Explosive Properties:	No information available	
Oxidizing Properties:	Not considered an oxidizer	

Other Information:

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk density: No information available

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions
Chemically Stable: yes.
Conditions to Avoid: Dust may form explosive mixture in air.
Materials to avoid Chlorinated compounds. Strong oxidizing agents.
Hazardous Decomposition Products: Combustion produces caustic fumes.
Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION**Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):**

Eye effects: Causes serious eye damage
Skin effects: Causes skin irritation
Ingestion: Harmful if swallowed.
Inhalation: May cause irritation of respiratory tract.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Copper sulfate pentahydrate; CuSO ₄ ·5H ₂ O 7758-99-8	= 960 mg/kg (Rat)	-	-

Information on Toxicological Effects:**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

Sensitization: May cause sensitization of susceptible persons
Mutagenic effects No information available.
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.
Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product Information:

Unknown Acute Toxicity: 9.3% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document:
ATEmix (oral): 821 mg/kg

ATEmix (dermal): 60976 mg/kg
LD50/oral: No information available

12. ECOLOGICAL INFORMATION

Marine Pollutant: This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity:

Unknown Aquatic Toxicity: 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Ecotoxicity effects: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: Degrades slowly.

Mobility: Water contaminating.

Additional ecological information: This product contains more than 0.001% Molybdenum (Mo). Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Do not reuse container.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) For domestic shipments marine pollutant container mark and shipping paper entry only apply to bulk and vessel transport

DOT (Vessel) UN3077, Environmentally Hazardous Substance, solid, n.o.s., (copper sulfate, zinc sulfate), 9, PGIII, Marine Pollutant, RQ

IATA (Air) UN3077, Environmentally Hazardous Substance, solid, n.o.s. (copper sulfate, zinc sulfate), 9, PGIII

IMO/MDG (Vessel) UN3077, Environmentally Hazardous Substance, solid, n.o.s. (copper sulfate, zinc sulfate), 9, PGIII, Marine Pollutant

15. REGULATORY INFORMATION

Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act):

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Ingredients	CERCLA/SARA 313	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O 7758-99-8	10 lb final RQ 4.54 kg final RQ	-	--
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O 7446-19-7	1000 lb final RQ 454 kg final RQ	-	--

State Regulations (RTK):**California Proposition 65:****U.S. State Right-to-Know Regulations:****U.S. EPA Label information:****EPA Pesticide Registration Number:**

Not Applicable

16. OTHER INFORMATION

NFPA: Health: 3 Flammability: 0 Reactivity: 1

HMIS: Health: 3 Flammability: 0 Reactivity: 1

Revision Date: 19-Apr-2016

Revision Note:

Reason for revision: None

Disclaimer

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End of Safety Data Sheet